# A_Squared: Perform A$^2$

Calculate A^2 where A is an 8-bit unsigned variable. The result is placed into 16-bit variable C. The 16-bit result is saved using little endian byte ordering.

C1:C0 = A^2

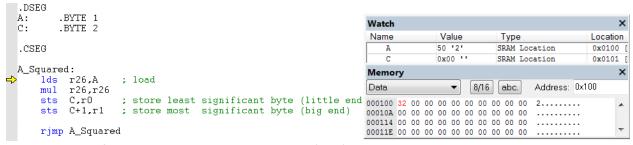Simulation of the multiplication problem $50^2$. The answer should equal 2,500 (0x09C4).



Figure 1: Start of program with A initialized to 0x32 ($50_{10}$) by double click on variable A on the Watch and enter "50"
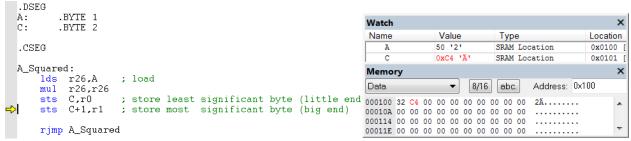


Figure 2: After performing calculation of A^2 (by performing command "mul r26, r26"), result of C0 is 0xC4



Figure 3: Result of C1 is 0x09. End of program with the result is 0x09C4($2,500_{10}$) containing in C1:C0.